

Fig. 1

20220169001.02302

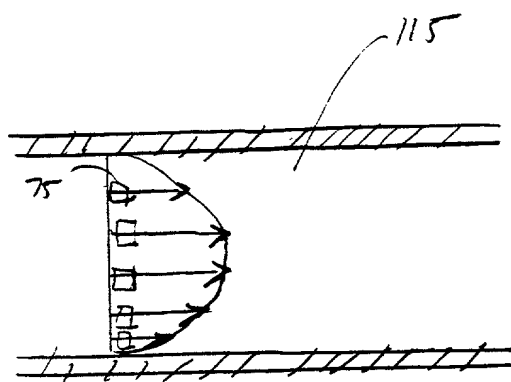


Fig. 2

208220-1649801

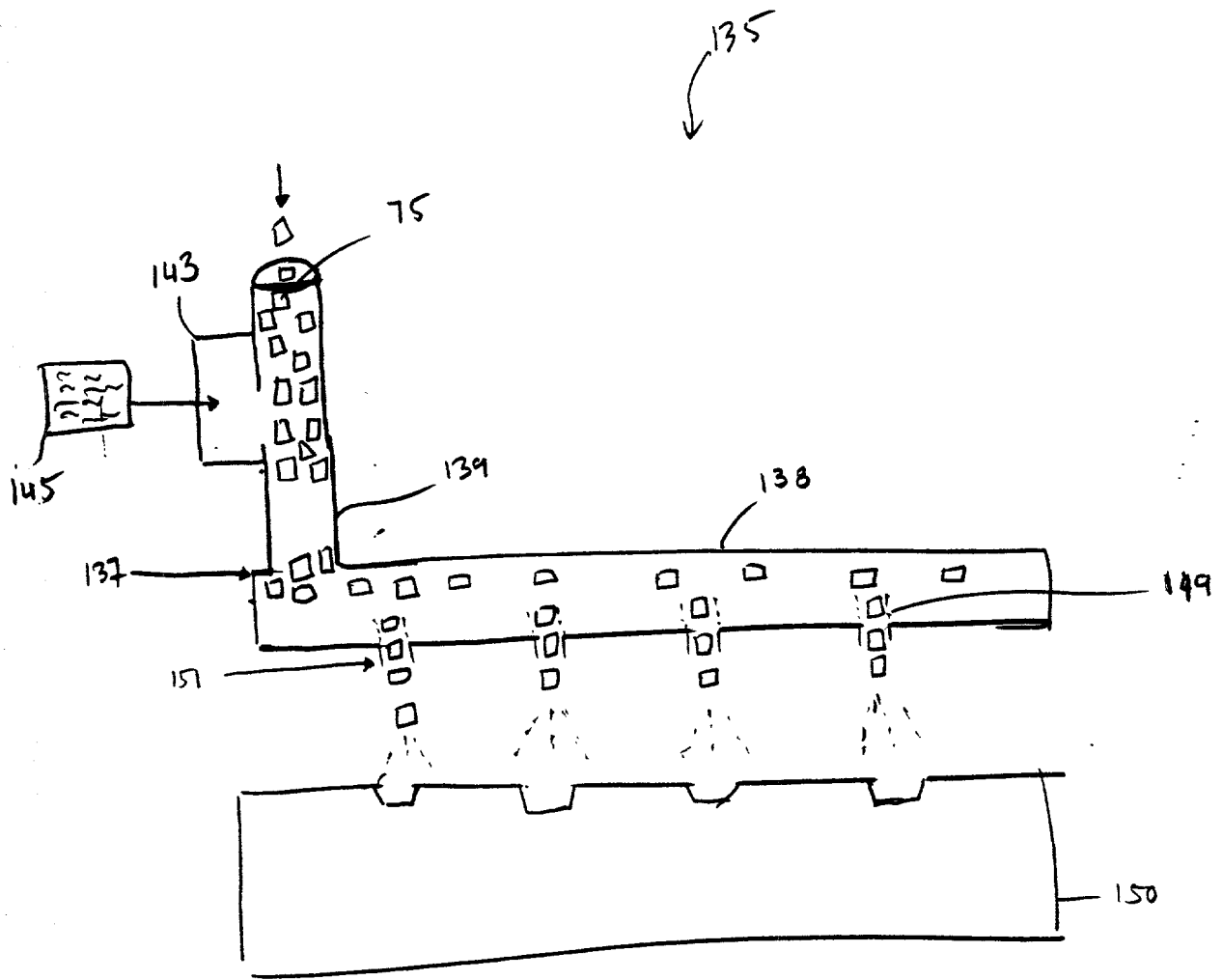


Fig. 3

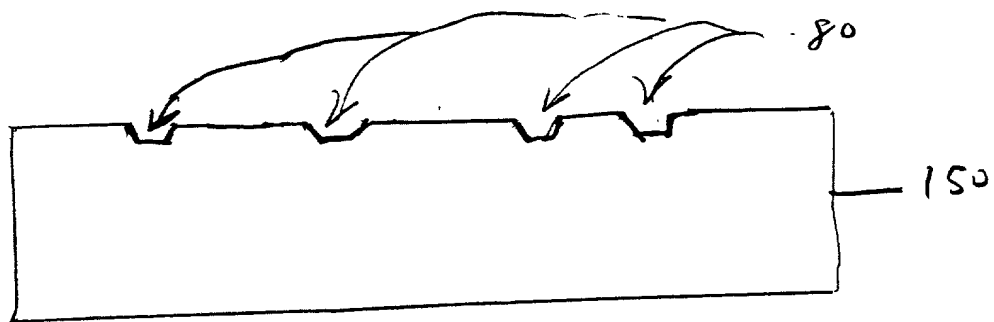
[illegible]

Figure 4

208220164980T

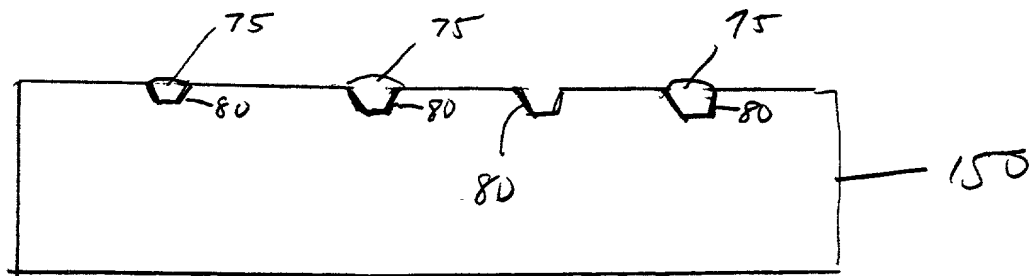


Fig. 5

20320-1543001

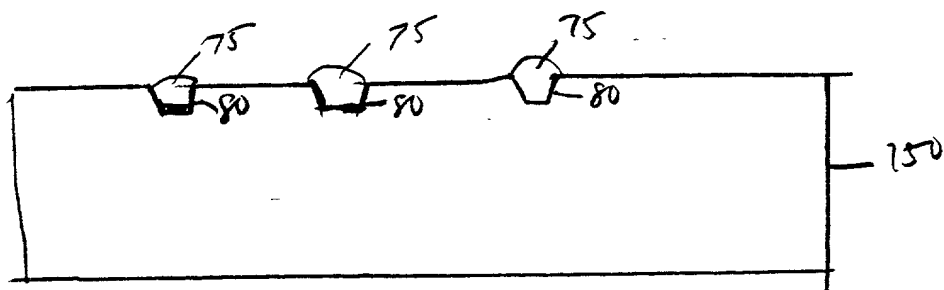


Fig. 6

208220 T649800T 10086491.022802

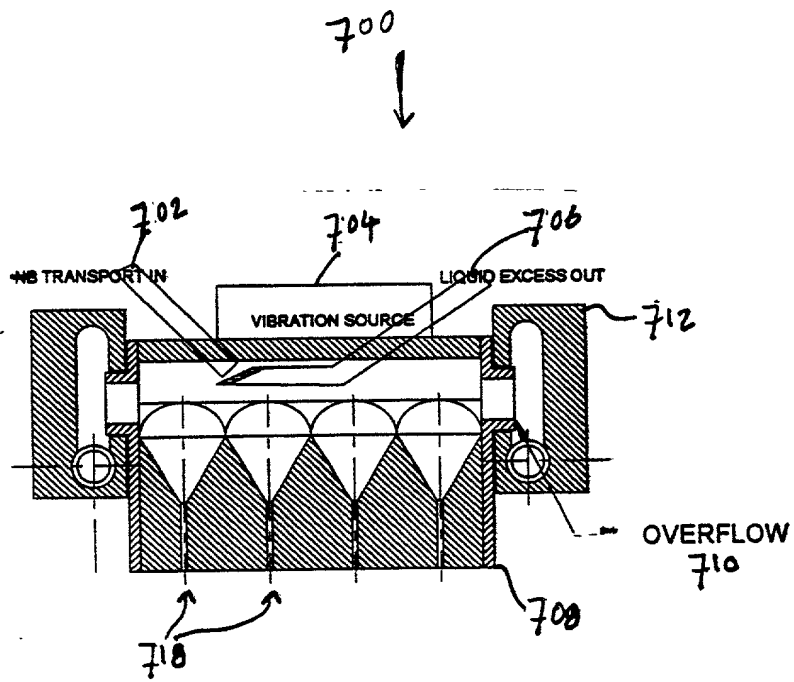


FIG. 7A

208220-16498001

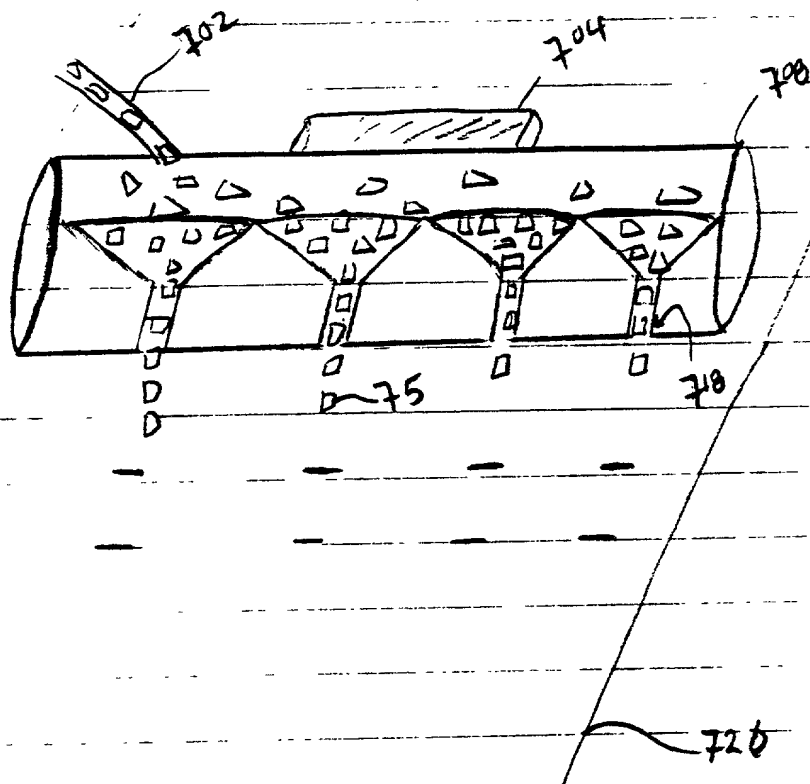


FIG. 7B

208220-1649800T

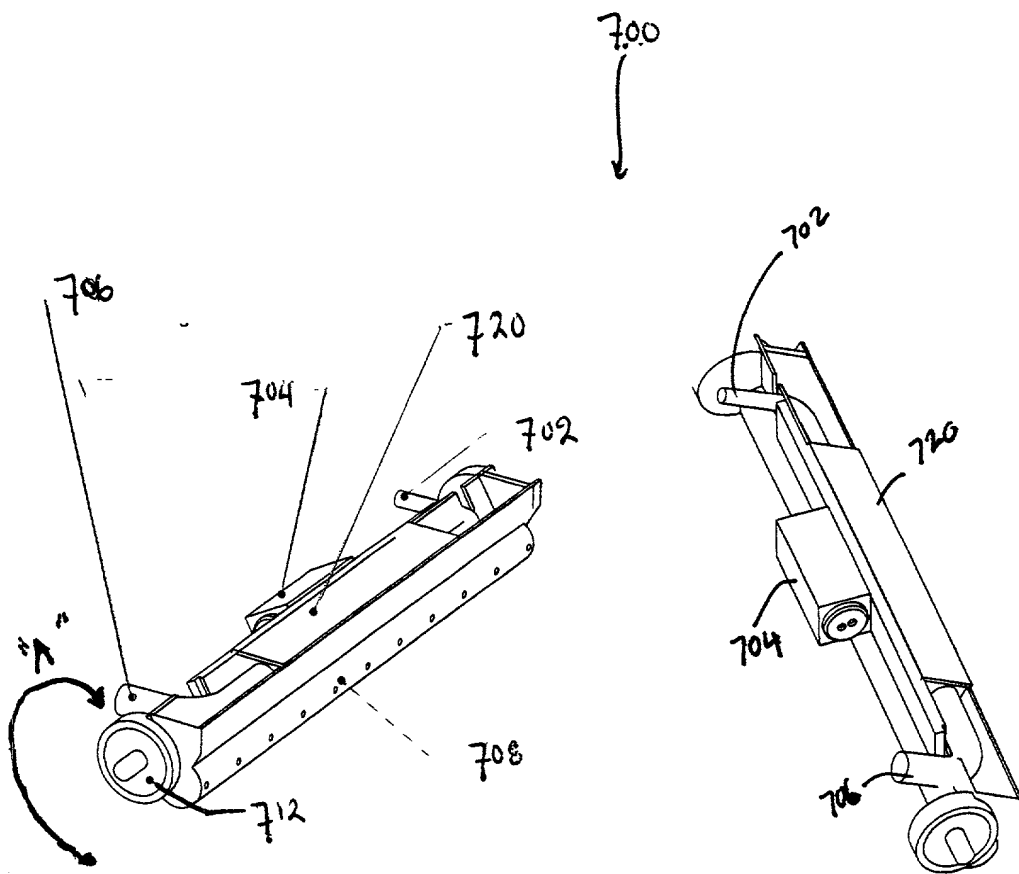


FIG. 7C

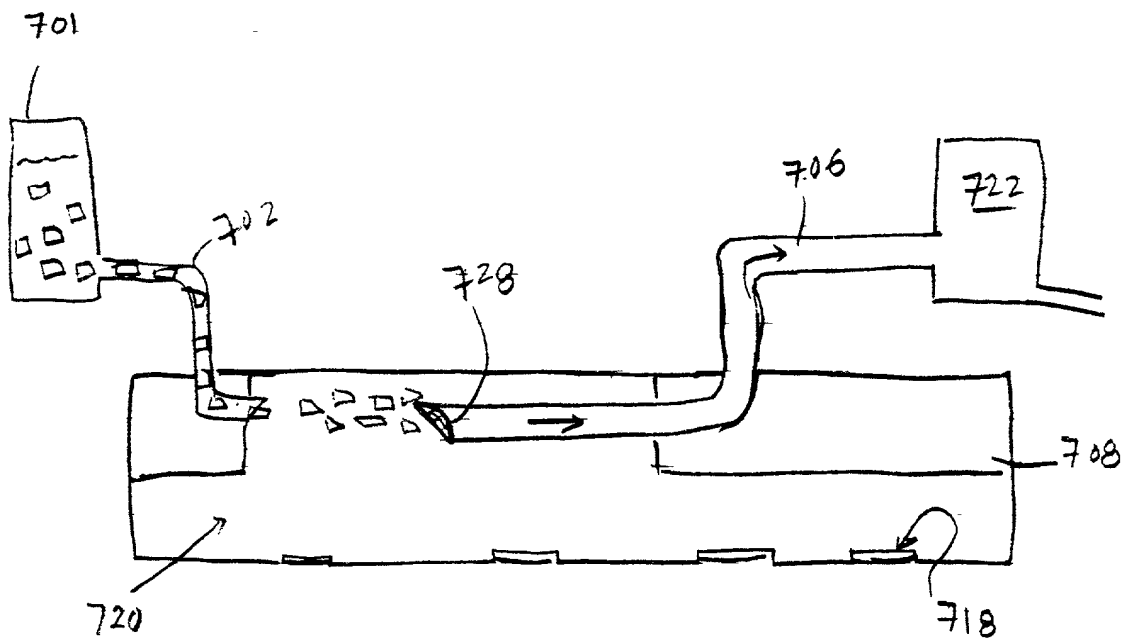


FIG. 7D

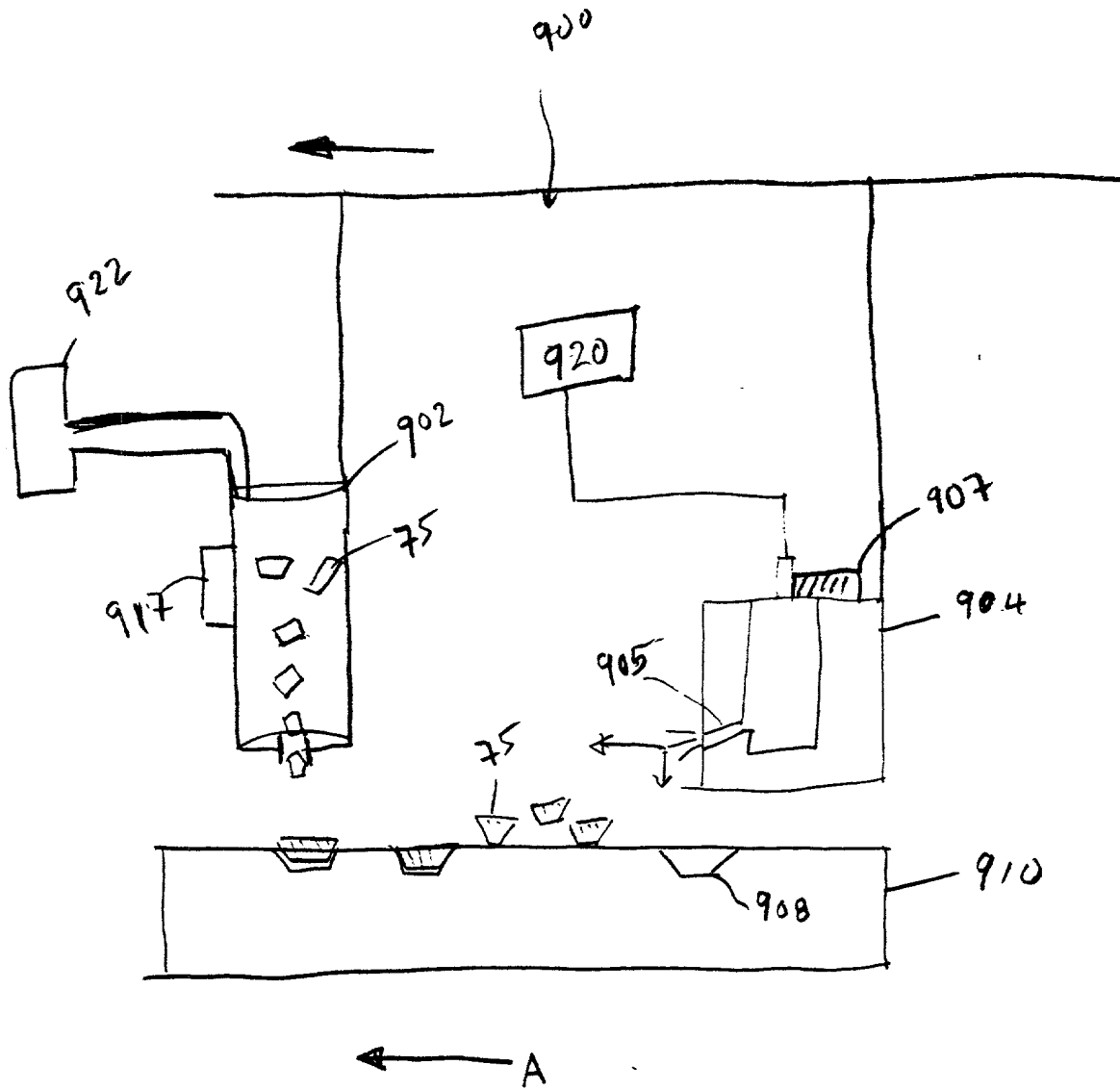


Fig. 9

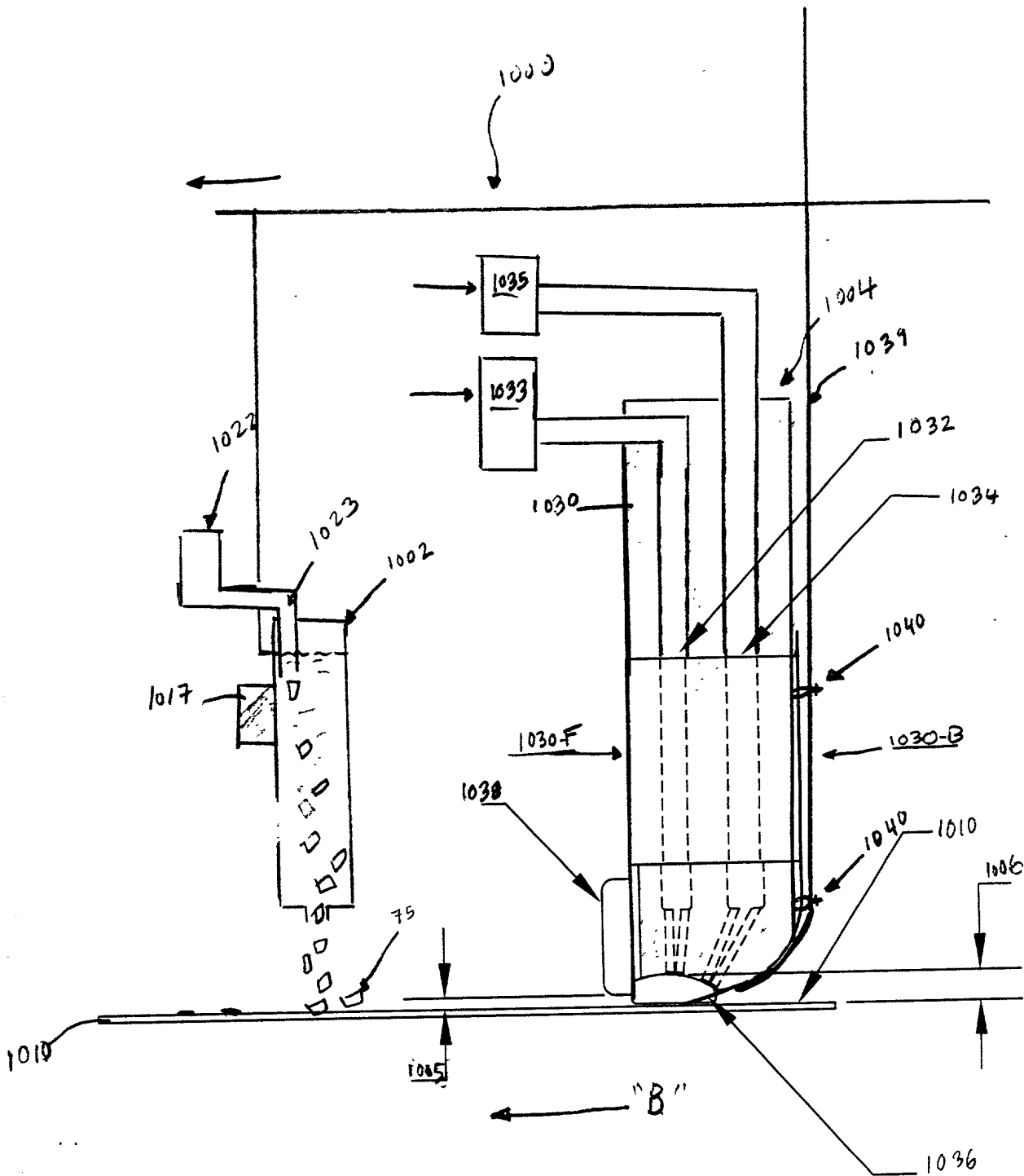


FIG. 10

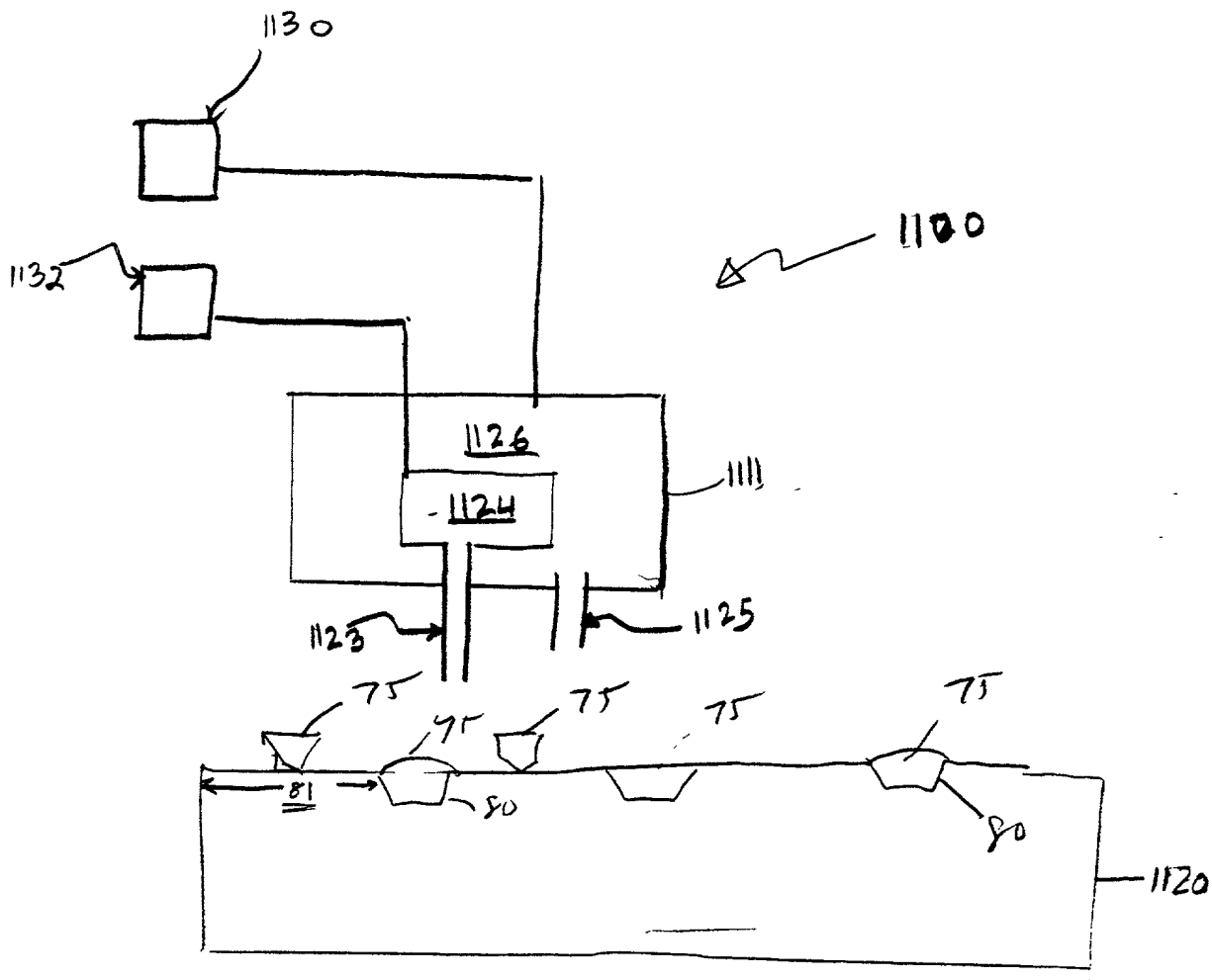


Fig. 11

A compression device coupling to a first tube compresses a fluid in the first tube causing the fluid to flow in a pulsating motion in the first tube.

1200

Blocks are added to the first tube through a second tube. .

1210

The fluid and blocks, flow in a pulsating motion, are dispensed over recessed regions in a substrate.

1220

The blocks fill the recessed regions in the substrate.

1230

Fig. 12

Moving a slurry having blocks from a first process chamber to a second process chamber without using valves

1300



The fluid continues to move through process chambers P_x through P_{x+1} .

1320

Fig. 13

A dispensing device dispenses a slurry having blocks over a substrate having receptor sites to receive the blocks.

1400

A pulsating device pulsates the slurry while blocks are being dispensed.

1410

Blocks are removed off the substrate by a clearing device which is coupled to at least one vacuum applying pressure to a nozzle head within the clearing device sucking excess blocks off the substrate.

1420

Excess blocks are removed to a container.

1430

Fig. 14

1500

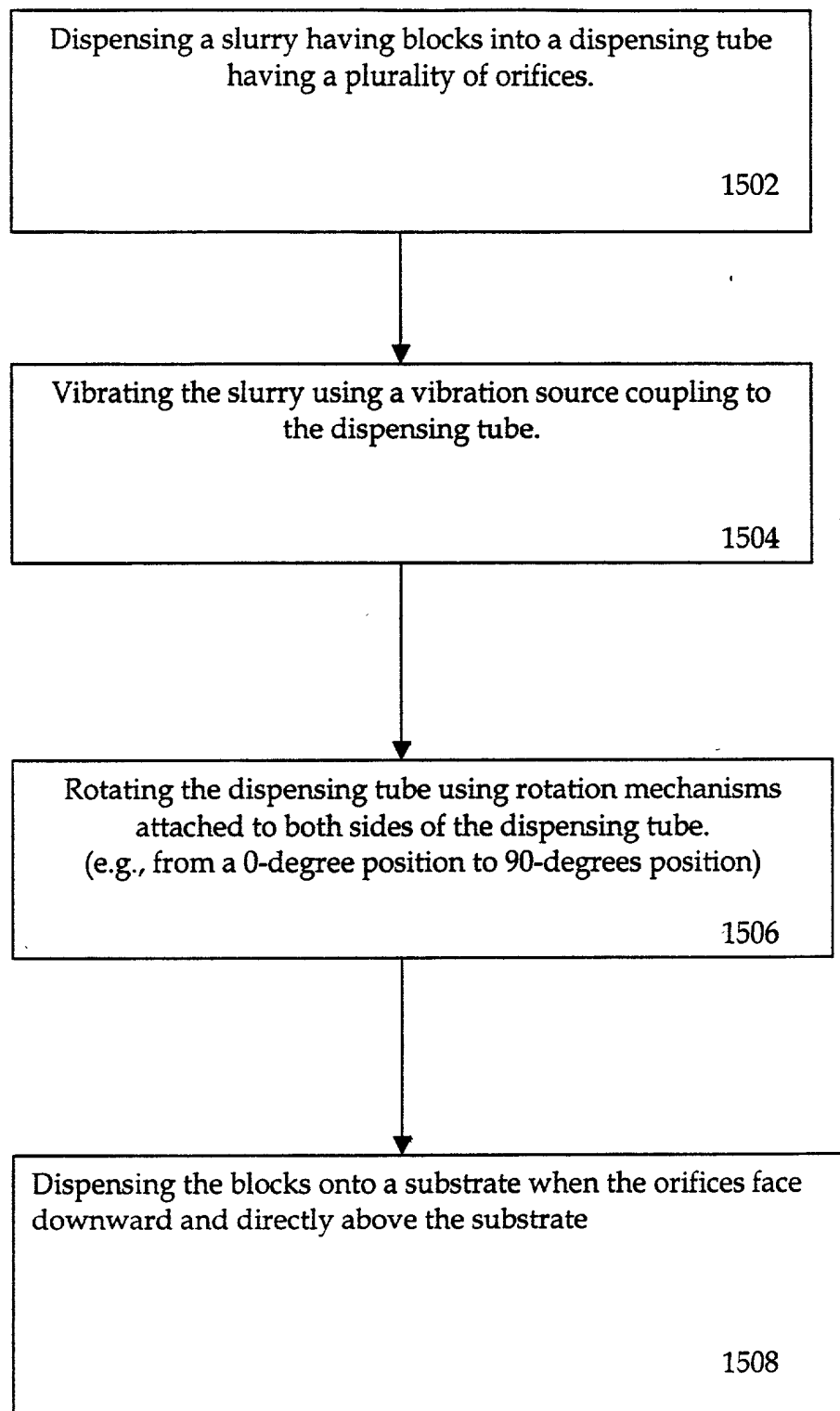


Fig. 15